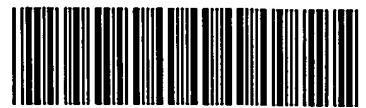


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/566,699
Source: 1Fw0
Date Processed by STIC: 9/18/06

ENTERED



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/566,697

DATE: 09/18/2006

TIME: 15:04:34

Input Set : E:\1547\5.ST25.txt
 Output Set: N:\CRF4\09182006\J566697.raw

```

3 <110> APPLICANT: INSTITUTE OF BASIC MEDICAL SCIENCES, CHINESE ACADEMY OF
4 MEDICAL SCIENCES
5 Wang, Heng
6 Cai, Qiliang
8 <120> TITLE OF INVENTION: A METHOD FOR PREPARING POLYEPITOPE CHIMERIC GENE VACCINE
10 <130> FILE REFERENCE: 1547/5
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/566,697
C--> 12 <141> CURRENT FILING DATE: 2006-02-01
12 <150> PRIOR APPLICATION NUMBER: PCT/CN2003/000620
13 <151> PRIOR FILING DATE: 2003-08-01
15 <160> NUMBER OF SEQ ID NOS: 53
17 <170> SOFTWARE: PatentIn version 3.3
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 4
21 <212> TYPE: PRT
22 <213> ORGANISM: Artificial sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Artificial peptide linker
27 <400> SEQUENCE: 1
29 Gly Pro Gly Pro
30 1
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 8
35 <212> TYPE: PRT
36 <213> ORGANISM: Plasmodium falciparum
38 <400> SEQUENCE: 2
40 Asn Lys Asn Asp Asn Lys Asn Asp
41 1 5
44 <210> SEQ ID NO: 3
45 <211> LENGTH: 23
46 <212> TYPE: PRT
47 <213> ORGANISM: Plasmodium falciparum
49 <400> SEQUENCE: 3
51 Lys Asn Glu Ser Lys Tyr Ser Asn Thr Phe Ile Asn Asn Ala Tyr Asn
52 1 5 10 15
55 Met Ser Ile Arg Arg Ser Met
56 20
59 <210> SEQ ID NO: 4
60 <211> LENGTH: 8
61 <212> TYPE: PRT
62 <213> ORGANISM: Plasmodium falciparum
64 <400> SEQUENCE: 4
66 Glu Glu Asn Val Glu His Asp Ala

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/566,697

DATE: 09/18/2006
TIME: 15:04:34

Input Set : E:\1547-5.ST25.txt
Output Set: N:\CRF4\09182006\J566697.raw

```

67 1      5
70 <210> SEQ ID NO: 5
71 <211> LENGTH: 18
72 <212> TYPE: PRT
73 <213> ORGANISM: Plasmodium falciparum
75 <400> SEQUENCE: 5
77 Glu Arg Glu Asp Glu Arg Thr Leu Thr Lys Glu Tyr Glu Asp Ile Val
78 1      5          10          15
81 Leu Lys
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 20
87 <212> TYPE: PRT
88 <213> ORGANISM: Plasmodium falciparum
90 <400> SEQUENCE: 6
92 Leu Asp Asn Ile Lys Asp Asn Val Gly Lys Met Glu Asp Tyr Ile Lys
93 1      5          10          15
96 Lys Asn Lys Lys
97          20
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 18
102 <212> TYPE: PRT
103 <213> ORGANISM: Plasmodium falciparum
105 <400> SEQUENCE: 7
107 Glu Gln Gln Ser Asp Leu Glu Gln Glu Arg Leu Arg Ala Lys Glu Lys
108 1      5          10          15
111 Leu Gln
115 <210> SEQ ID NO: 8
116 <211> LENGTH: 15
117 <212> TYPE: PRT
118 <213> ORGANISM: Plasmodium falciparum
120 <400> SEQUENCE: 8
122 Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe Asn Val
123 1      5          10          15
126 <210> SEQ ID NO: 9
127 <211> LENGTH: 18
128 <212> TYPE: PRT
129 <213> ORGANISM: Plasmodium falciparum
131 <400> SEQUENCE: 9
133 Asn Ser Gly Cys Phe Arg His Leu Asp Glu Arg Glu Glu Cys Lys Cys
134 1      5          10          15
137 Leu Leu
141 <210> SEQ ID NO: 10
142 <211> LENGTH: 19
143 <212> TYPE: PRT
144 <213> ORGANISM: Plasmodium falciparum
146 <400> SEQUENCE: 10
148 Glu Asp Ser Gly Ser Asn Gly Lys Lys Ile Thr Cys Glu Cys Thr Lys
149 1      5          10          15
152 Pro Asp Ser

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/566,697

DATE: 09/18/2006
TIME: 15:04:34

Input Set : E:\1547-5.ST25.txt
Output Set: N:\CRF4\09182006\J566697.raw

156 <210> SEQ ID NO: 11
157 <211> LENGTH: 19
158 <212> TYPE: PRT
159 <213> ORGANISM: Plasmodium falciparum
161 <400> SEQUENCE: 11
163 Asp Gly Asn Cys Glu Asp Ile Pro Ile Ile Val Asn Glu Phe Ser Ala
164 1 5 10 15
167 Ile Asp Leu
171 <210> SEQ ID NO: 12
172 <211> LENGTH: 18
173 <212> TYPE: PRT
174 <213> ORGANISM: Plasmodium falciparum
176 <400> SEQUENCE: 12
178 Gly Asn Ala Glu Lys Tyr Asp Lys Met Asp Glu Pro Gln His Tyr Gly
179 1 5 10 15
182 Lys Ser
186 <210> SEQ ID NO: 13
187 <211> LENGTH: 19
188 <212> TYPE: PRT
189 <213> ORGANISM: Plasmodium falciparum
191 <400> SEQUENCE: 13
193 Asp Gln Pro Lys Gln Tyr Glu Gln His Leu Thr Asp Tyr Glu Lys Ile
194 1 5 10 15
197 Lys Glu Gly
201 <210> SEQ ID NO: 14
202 <211> LENGTH: 17
203 <212> TYPE: PRT
204 <213> ORGANISM: Plasmodium falciparum
206 <400> SEQUENCE: 14
208 Gly Ile Ser Tyr Tyr Glu Lys Val Leu Ala Lys Tyr Lys Asp Asp Leu
209 1 5 10 15
212 Glu
216 <210> SEQ ID NO: 15
217 <211> LENGTH: 10
218 <212> TYPE: PRT
219 <213> ORGANISM: Plasmodium falciparum
221 <400> SEQUENCE: 15
223 Gln Thr Asp Glu Ile Lys Asn Asp Asn Ile
224 1 5 10
227 <210> SEQ ID NO: 16
228 <211> LENGTH: 17
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Artificial oligonucleotide primer
235 <400> SEQUENCE: 16
236 gatcaccatg gaattc
239 <210> SEQ ID NO: 17
240 <211> LENGTH: 17

17

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/566,697

DATE: 09/18/2006

TIME: 15:04:34

Input Set : E:\1547-5.ST25.txt
 Output Set: N:\CRF4\09182006\J566697.raw

```

241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Artificial oligonucleotide primer
247 <400> SEQUENCE: 17
248 gatccgaatt ccatggt 17
251 <210> SEQ ID NO: 18
252 <211> LENGTH: 32
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Artificial oligonucleotide primer
259 <400> SEQUENCE: 18
260 acatcatgcc tgatcaaaca agaacgacaa ca 32
263 <210> SEQ ID NO: 19
264 <211> LENGTH: 32
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Artificial oligonucleotide primer
271 <400> SEQUENCE: 19
272 tgttcttgct gttgtcttg ctgccttaggc gc 32
275 <210> SEQ ID NO: 20
276 <211> LENGTH: 36
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Artificial oligonucleotide primer
283 <400> SEQUENCE: 20
284 acatcatgcc tgatcaaaga acgagagcaa gtacag 36
287 <210> SEQ ID NO: 21
288 <211> LENGTH: 40
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Artificial oligonucleotide primer
295 <400> SEQUENCE: 21
296 gctctcggtc atgtcggtgt ggaagttagtt gttgcggatg 40
299 <210> SEQ ID NO: 22
300 <211> LENGTH: 41
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Artificial oligonucleotide primer
307 <400> SEQUENCE: 22
308 catcaacaac gcctacaaca tgagcatccg ccgcagcatg g 41
311 <210> SEQ ID NO: 23
312 <211> LENGTH: 34
313 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/566,697

DATE: 09/18/2006

TIME: 15:04:34

Input Set : E:\1547-5.ST25.txt

Output Set: N:\CRF4\09182006\J566697.raw

314 <213> ORGANISM: Artificial sequence
 316 <220> FEATURE:
 317 <223> OTHER INFORMATION: Artificial oligonucleotide primer
 319 <400> SEQUENCE: 23
 320 ggcggcgctcg taccggggc cggggcctag gcgc 34
 323 <210> SEQ ID NO: 24
 324 <211> LENGTH: 32
 325 <212> TYPE: DNA
 326 <213> ORGANISM: Artificial sequence
 328 <220> FEATURE:
 329 <223> OTHER INFORMATION: Artificial oligonucleotide primer
 331 <400> SEQUENCE: 24
 332 acatcatgcc tgatcagagg agaacgtgga gc 32
 335 <210> SEQ ID NO: 25
 336 <211> LENGTH: 32
 337 <212> TYPE: DNA
 338 <213> ORGANISM: Artificial sequence
 340 <220> FEATURE:
 341 <223> OTHER INFORMATION: Artificial oligonucleotide primer
 343 <400> SEQUENCE: 25
 344 tcctcttgca cctcgctg cggccttaggc gc 32
 347 <210> SEQ ID NO: 26
 348 <211> LENGTH: 53
 349 <212> TYPE: DNA
 350 <213> ORGANISM: Artificial sequence
 352 <220> FEATURE:
 353 <223> OTHER INFORMATION: Artificial oligonucleotide primer
 355 <400> SEQUENCE: 26
 356 acatcatgcc tgatcagagc gcgaggacga ggcgcaccctg accaaggagt acg 53
 359 <210> SEQ ID NO: 27
 360 <211> LENGTH: 54
 361 <212> TYPE: DNA
 362 <213> ORGANISM: Artificial sequence
 364 <220> FEATURE:
 365 <223> OTHER INFORMATION: Artificial oligonucleotide primer
 367 <400> SEQUENCE: 27
 368 gactggttcc tcatgttcct gtacgtcacgac ttccggggc cggggcctag gcgc 54
 371 <210> SEQ ID NO: 28
 372 <211> LENGTH: 43
 373 <212> TYPE: DNA
 374 <213> ORGANISM: Artificial sequence
 376 <220> FEATURE:
 377 <223> OTHER INFORMATION: Artificial oligonucleotide primer
 379 <400> SEQUENCE: 28
 380 acatcatgcc tgatcactgg acaacatcaa ggacaacgtg ggc 43
 383 <210> SEQ ID NO: 29
 384 <211> LENGTH: 42
 385 <212> TYPE: DNA
 386 <213> ORGANISM: Artificial sequence

VERIFICATION SUMMARY DATE: 09/18/2006
PATENT APPLICATION: US/10/566,697 TIME: 15:04:35

Input Set : E:\1547-5.ST25.txt
Output Set: N:\CRF4\09182006\J566697.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date